Index of Claims

| App | licatio | n/Contr | ol No |
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10/813,986

Examiner

Rene Towa

Applicant(s)/Patent under Reexamination

MUSCHLER, GEORGE F.

Art Unit

3736

| <b>√</b> | Rejected |
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| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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Restricted

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| Cla      | aim      | Date   |                      |          | 7 ſ         | Claim Date           |          |            |          |          |                |          | Cla       | aim      | Date     |          |                   |     |       |            |          |                |              |               |          |                |          |          |          |
|----------|----------|--|----------------------|----------|-------------|----------------------|----------|------------|----------|----------|----------------|----------|-----------|----------|----------|----------|-------------------|-----|-------|------------|----------|----------------|--------------|---------------|----------|----------------|----------|----------|----------|
|          | ĭ        |  |                      |          |             | T                    | 7 [      |            |          |          |                |          |           |          | Т        | Τ        | $\Box$            |     |       |            |          |                |              |               |          |                |          | T        |          |
| Final    | Original | 1/19/06  |                      |          |             |                      |          | Final      | Original |          |                |          |           |          | İ        | 1        | 1 1               |     | Final | Original   |          |                |              |               | Ì        | 1              |          |          |          |
| iE       | Ē        | 5  |                      |          |             |                      |          | ι <u>Έ</u> | ij       |          |                |          |           |          | - 1      | 1        |                   |     | ᇤ     | ig         |          | Ì              |              |               | Ì        | ļ              |          | ļ        | -        |
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|          | 1        | J  |                      |          |             |                      | 7 I      | -          | 51       | 1        |                |          | $\neg$    | 寸        |          | $\top$   | П                 | 1   |       | 101        |          |                | T            |               |          | ヿ              | 7        |          | $\neg$   |
|          | 2        |  |                      |          |             | +                    | 7 i      |            | 52       | r        |                |          | $\exists$ | $\dashv$ | _        |          | 1                 | 1   |       | 102        |          | 1              | 十            | 寸             |          |                | 7        | 寸        | $\neg$   |
|          | 3        |  |                      | 1        |             | _                    | 7 h      |            | 53       | т        |                |          |           | $\dashv$ | $\top$   |          | $\top$            | Ì   |       | 103        |          |                | $\dashv$     |               |          | $\dashv$       | $\dashv$ | $\dashv$ | ヿ        |
| _        | 4        |  |                      |          | $\vdash$    | ++                   | ~        |            | 54       | V        | Н              |          | $\neg$    | $\dashv$ | 十        | $\top$   | 1                 | ı   |       | 104        |          | _              | 十            | 7             |          | 一              | 7        | 一        | $\dashv$ |
| -        | 5        |  |                      | $\top$   | $\top$      | $\top$               | 7 I      |            | 55       | Ť        |                |          |           | 7        | T        | $\top$   | $\sqcap$          | ı   |       | 105        |          |                | 十            | _             |          | _              | $\neg$   | $\neg$   | $\neg$   |
|          | 6        | <del>      -   -                            </del> |                      | +        | _           |                      | ┤        |            | 56       | _        | П              | $\dashv$ | -         | $\dashv$ |          | +        | $\top$            | ı   |       | 106        |          | _              | _            | $\dashv$      |          | _              | $\neg$   | _        | $\dashv$ |
|          | 7        | <del>           </del>                             |                      | 1        | $\vdash$    |                      | 7        |            | 57       | _        |                | $\neg$   | $\dashv$  | $\dashv$ |          | $\vdash$ | 1-1               | ı   |       | 107        | _        | 十              | 十            | $\dashv$      |          | 1              | 7        | 1        | $\dashv$ |
|          | 8        |  |                      | 1        |             | 11                   | 1 1      |            | 58       | T        |                |          |           | $\dashv$ | 1        | +        | $\Box$            | ı   |       | 108        |          | _              | $\dashv$     | -             | _        |                | +        | $\neg$   | $\dashv$ |
|          | 9        | <del>                                     </del>   |                      | +        | <del></del> | 11                   | 1 1      | -          | 59       | -        |                |          |           | 十        |          | +-       | $\Box$            | ŀ   |       | 109        | $\neg$   | -              | $\dashv$     | -             | $\neg$   | $\dashv$       | _        |          | $\dashv$ |
| -        | 10       | <del>                                     </del>   |                      | +        | _           | <del> - -</del>      | 1        |            | 60       |          |                | -        |           | 7        | _        |          | 1                 | ŀ   |       | 110        |          | -              | +            | $\dashv$      | $\neg$   | $\dashv$       | 7        | $\dashv$ | $\dashv$ |
|          | 11       | <del>                                     </del>   |                      | +-       | $\vdash$    | ++                   | 1 1      |            | 61       | Н        |                |          |           | $\dashv$ | $\dashv$ | $\top$   | +                 | ŀ   |       | 111        | $\neg$   | $\dashv$       | -            |               | $\neg$   |                | -        | $\dashv$ | -        |
| <u> </u> | 12       | <del>    -  </del>                                 |                      | +        |             |                      | 1 h      |            | 62       | $\vdash$ |                |          | -         | -        | +        | +        | $\forall \exists$ | ł   |       | 112        | $\dashv$ |                | +            |               | -        |                | $\dashv$ | -        | $\dashv$ |
| <u> </u> | 13       | ╫┈   |                      | +        | -           |                      | 1 1      |            | 63       | -        | -              |          | -         | -        |          | +-       | H                 | ŀ   |       | 113        |          |                | +            | -+            |          | <del>-  </del> | $\dashv$ | $\dashv$ | $\dashv$ |
| $\vdash$ | 14       | <del>    -  </del>                                 | -                    | +-       | $\vdash$    | ++                   | -  -     |            | 64       |          | $\vdash$       |          | +         | +        | +        | +        | +                 | ŀ   |       | 114        |          | $\dashv$       | +            | -             |          |                |          | -        | $\dashv$ |
|          | 15       | <del>                                     </del>   | $\vdash\vdash$       | +        | $\vdash$    | ++                   | <b>+</b> |            | 65       |          |                | -        | $\dashv$  | $\dashv$ | $\dashv$ | +        | +                 | ŀ   |       | 115        |          | $\dashv$       | $\dashv$     | -             |          |                | -        | -+       |          |
| -        | 16       | <del>    -  </del>                                 |                      | +        | $\vdash$    |                      | 1        |            | 66       |          | $\vdash$       |          | $\dashv$  | $\dashv$ | +        | -        | +                 | ŀ   |       | 116        |          | $\dashv$       | +            | -             |          |                | -+       |          |          |
|          | 17       | <del>                                     </del>   | -                    | +        |             |                      | -  }     |            | 67       | -        |                |          |           | $\dashv$ |          |          | ╁╌┤               | ł   |       | 117        |          |                | +            | -+            | $\dashv$ |                | +        | -        | $\dashv$ |
| -        | 18       | <del>      -   -  </del>                           |                      | +        | -           | +-+-                 | -  }     |            | 68       | $\vdash$ |                | $\dashv$ | $\dashv$  | $\dashv$ | +        | +        | +                 | ŀ   |       | 118        |          |                | -            |               | $\neg$   |                | $\dashv$ | -+       |          |
| <u> </u> | 19       | <del>     </del>                                   |                      | +        |             | +                    | -        |            | 69       | -        | Н              |          |           | +        |          | +        | +                 | ł   |       | 119        |          |                |              |               |          |                | +        | -+       |          |
|          | 20       | H -  |                      | +        | $\vdash$    | ++                   | - H      |            | 70       | $\vdash$ | $\vdash$       | -        | -         | 寸        | +        | +-       | +                 | ŀ   |       | 120        | $\dashv$ | +              | $\dashv$     | $\dashv$      | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$ |
|          | 21       | <del>      -   -  </del>                           |                      | +        | $\vdash$    | ++                   | ┥┟       |            | 71       | $\vdash$ | Н              |          | _         | $\dashv$ | +        |          | +                 | }   |       | 121        | $\dashv$ | <del>-</del> + | +            | -             |          | -              |          | $\dashv$ |          |
| -        | 22       | <del>                                     </del>   |                      | +        | $\vdash$    | ++                   | -  }     |            | 72       | $\vdash$ |                |          | -         | $\dashv$ | +        | +        | +                 | ŀ   |       | 122        | $\dashv$ |                | +            | $\dashv$      | $\dashv$ |                | -        | -        | $\dashv$ |
|          | 23       | H -  | $\vdash$             | +        | $\vdash$    |                      | -        |            | 73       |          | $\dashv$       |          | -         | +        |          | +        | ┼╌┤               | - } |       | 123        |          | -              | +            | $\dashv$      | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$ |
| <u> </u> | 24       | +  | -                    | +        | +           | +                    | ┨        |            | 74       | -        | -              | -        |           | -+       | +-       | ╌        | ╁┽                | - 1 | -     | 124        |          | -+             | +            | $\dashv$      | -        |                | +        | -        | -        |
|          | 25       | <del>                                      </del>  |                      | +        | +           | + +                  | ┨┤       |            | 75       | -        | -              |          |           | +        | +        | +        | +-                | }   |       | 125        |          |                | +            | $\dashv$      | -        |                | $\dashv$ | $\dashv$ | $\dashv$ |
|          | 26       | <del>    -  </del>                                 |                      | +        | -           |                      | ┨╏       | -          | 76       | H        | Н              | -        | _         | +        |          |          | ┼╌┤               | ŀ   |       | 126        |          |                | +            |               |          |                |          |          |          |
|          | 27       | <del>                                     </del>   | <del>  -   -</del> - | ╂═┤      | -+          | <del>- - </del> -    | ┥┟       |            | 77       |          | Н              |          |           | $\dashv$ | -        | +        | ╁╌┩               | ŀ   |       | 127        | -        | -+             | -            |               |          | -+             | -+       |          |          |
|          | 28       | <del> </del>                                       |                      | +        | +           | <del>-   -  </del>   | $\dashv$ |            | 78       | $\vdash$ | $\vdash$       | $\vdash$ | -         | $\dashv$ | +        | +        | +i                | - 1 |       | 128        | $\dashv$ | $\dashv$       | +            | -             |          | -              | -+       | -+       | -+       |
| -        | 29       |  |                      | +        |             |                      | -        |            | 79       |          |                |          |           |          | -        |          | +                 | }   |       | 129        |          | <del>-</del>   | $\dashv$     |               | }        | $\dashv$       | +        |          |          |
| <u> </u> | 30       | <del>      -  </del>                               | $\vdash\vdash$       | ┼        |             | +                    | ┨        |            | 80       | -        | -              | -        | -         |          |          |          | +                 | - 1 |       | 130        |          |                | -+           |               | -        | $\dashv$       | -        | -        | $\dashv$ |
| -        | 31       | <del>      -   -                            </del> |                      | +        |             |                      | ┨╏       |            | 81       | -        |                |          | +         | $\dashv$ |          | +        | +                 |     |       | 131        |          |                | +            |               |          |                | -        | -+       | $\dashv$ |
| -        | 32       | H -  |                      | +        |             | ++                   | ┨╏       |            | 82       |          |                | -        |           | -        |          |          | +                 | -   |       | 132        | $\dashv$ |                | +            | }             | -        | $\dashv$       | +        | $\dashv$ |          |
|          | 33       | H +  | $\vdash$             | +        | +           | +                    | -   -    |            | 83       | _        |                |          |           | -        |          | -        | +                 | }   |       | 133        | $\dashv$ | $\dashv$       | +            |               | $\dashv$ | $\dashv$       | $\dashv$ | -        | $\dashv$ |
| -        | 34       | <del>                                      </del>  | $\vdash$             | +        | +           | +                    | ┨╏       |            | 84       |          |                |          | -         |          | +        | +        | +                 | H   |       | 134        | $\dashv$ | -              | +            | $\dashv$      | $\dashv$ | $\dashv$       | $\dashv$ | $\dashv$ | -        |
|          | 35       | <del>                                     </del>   |                      | 1-1      |             |                      | -        |            | 85       | _        | Н              |          | $\dashv$  |          |          |          | +                 | ŀ   |       | 135        |          |                | -            |               |          |                | $\dashv$ | $\dashv$ |          |
|          | 36       | ++-  | $\vdash\vdash$       | $\vdash$ | -           | +-                   | ┨        |            | 86       |          | $\vdash$       |          |           | -+       |          |          | +                 | ŀ   |       | 136        |          | +              | +            |               | $\dashv$ | $\dashv$       | +        | $\dashv$ |          |
|          | 37       | <del>      -  </del>                               | -                    | +        | -           | ++                   | ┨        |            | 87       |          | -              |          |           |          |          |          |                   | ŀ   |       | 137        |          |                | +            | -             |          | $\dashv$       | $\dashv$ | $\dashv$ |          |
|          |          |  |                      |          |             | +                    | 1        |            |          |          | $\vdash$       | $\vdash$ | $\dashv$  | +        | -        | +        | +                 | ŀ   |       |            | $\dashv$ | +              | +            | $\dashv$      | $\dashv$ | -              |          | -+       | $\dashv$ |
|          | 38       |  |                      | +        | -           | +                    | -        |            | 88<br>89 |          | Н              |          | -         | +        | $\dashv$ | +        | +                 | ŀ   |       | 138<br>139 |          | +              | +            | $\dashv$      | -        | $\dashv$       | -+       |          |          |
| ļ        | 39       | -  | -                    | +        |             | +                    | -        |            | 09       | _        | $\vdash$       |          | -         | _        |          |          | +                 | ŀ   |       |            |          | +              | +            | $\dashv$      | $\dashv$ | -              | -        | $\dashv$ | $\dashv$ |
|          | 40       |  |                      |          | -           |                      | -        |            | 90       |          |                |          |           | -        | +        | +        | +                 | ŀ   |       | 140        | -        |                | +            |               |          |                | -        |          |          |
|          | 41       |  |                      | +        | $\vdash$    | +                    | -        |            | 91<br>92 | -        | $\vdash\vdash$ | $\vdash$ | -         | +        | -        | +-       | +                 | ŀ   |       | 141        | -        | +              | $\dashv$     | +             |          |                | -+       |          | $\dashv$ |
|          | 42       |  |                      | +        |             | <del>-   -   -</del> | -        |            |          |          | $\vdash$       |          |           | +        | +        | +        | -                 | ŀ   |       | 142        | -        | -+             | -            |               |          | $\dashv$       | -+       | $\dashv$ | $\dashv$ |
| <b> </b> | 43       | H -  | $\vdash$             | +        | $\vdash$    | ++                   | -   -    |            | 93       | <u> </u> | Н              |          | -         | -        | +        | +-       | igoplus           | ļ   |       | 143        |          | +              | +            | 4             |          |                | $\dashv$ |          | $\dashv$ |
| <u> </u> | 44       | -  | $\vdash$             | +        |             | ++                   | -        |            | 94       |          |                |          | $\dashv$  | $\dashv$ | +        | +-       |                   | ŀ   |       | 144        |          | +              | $\dashv$     | $\dashv$      |          |                | $\dashv$ |          | $\dashv$ |
| <u> </u> | 45       | #  | $\vdash$             | $\vdash$ | $\vdash$    | ++                   | 4 }      |            | 95       | <u> </u> | <u> </u>       |          | -         | 4        | +        | +-       | +                 | ļ   |       | 145        | -        | +              | +            | $\dashv$      |          |                |          |          | $\dashv$ |
| <u> </u> | 46       |  |                      | 1-1      | _           |                      | 4 }      |            | 96       | <u> </u> |                |          | $\dashv$  | $\dashv$ | +        | +-       | +                 |     |       | 146        |          | $\dashv$       | +            | $\dashv$      | _        |                | 4        | $\dashv$ | $\dashv$ |
|          | 47       | -  |                      |          |             |                      | -        |            | 97       |          | Ш              | $\sqcup$ | _         |          | -        | - -      | 1                 |     |       | 147        | _        |                | -            |               | _        | _              | _        | _        | _        |
| <u> </u> | 48       | <del>  - -</del>                                   | <u> </u>             | +        |             |                      | -        |            | 98       | <u> </u> | $\sqcup$       | $\sqcup$ |           | -        | _        | +        | 4                 | ļ   |       | 148        |          | +              | $\downarrow$ | $\rightarrow$ | _        | _              | _        | $\dashv$ | _        |
| ļ        | 49       | <del>                                     </del>   | <del> </del>         |          |             | _ _ _                | 4        |            | 99       | <u> </u> | Ш              |          | _         | _        | _        | 4-       | $\perp$           | ļ   |       | 149        |          |                | $\downarrow$ | $\dashv$      |          | _              |          | _        | _        |
| L        | 50       | V  |                      | $\perp$  | Ш.          |                      | _  [     |            | 100      | L        | L l            |          |           |          |          |          | $\perp$           |     |       | 150        |          |                |              |               |          |                |          |          |          |